

Figure 1

**Bcl-2 (N-19)**

Bcl2α	atg	gcg	cac	gct	ggg	aga	aca	ggg	tac	gat	aac	ccg	gag	ata	gtg	atg	aag	tac	atc	cat	60
α591	atg	gcg	cac	gct	ggg	aga	aca	ggg	tac	gat	aac	ccg	gag	ata	gtg	atg	aag	tac	atc	cat	60
α588	atg	gcg	cac	gct	ggg	aga	aca	ggg	tac	gat	aac	ccg	gag	ata	gtg	atg	aag	tac	atc	cat	60
α480	atg	gcg	cac	gct	ggg	aga	aca	ggg	tac	gat	aac	ccg	gag	ata	gtg	atg	aag	tac	atc	cat	60
α633	atg	gcg	cac	gct	ggg	aga	aca	ggg	tac	gat	aac	ccg	gag	ata	gtg	atg	aag	tac	atc	cat	60
Bcl2β	atg	gog	cac	gct	ggg	aga	aca	ggg	tac	gag	aac	ccg	gag	ata	gtg	atg	aag	tac	atc	cat	60
β489	atg	gcg	cac	gct	ggg	aga	aca	ggg	tac	gat	aac	ccg	gag	ata	gtg	atg	aag	tac	atc	cat	60
β474	atg	gcg	cac	gct	ggg	aga	aca	ggg	tac	gac	aac	ccg	gag	ata	gtg	atg	aag	tac	atc	cat	60
β420	atg	gcg	cac	gct	ggg	aga	aca	ggg	tac	gat	aac	ccg	gag	ata	gtg	atg	aag	tac	atc	cat	60
β315	atg	gcg	cac	gct	ggg	aga	aca	ggg	tac	gat	aac	ccg	gag	ata	gtg	atg	aag	tac	atc	cat	60
<b>BCL-2 (AB-2)</b>																					

**8H4**

Bcl2α	tat	aag	ctg	tcg	cag	agg	ggc	tac	gag	tgg	gat	gcg	gga	gat	gtg	ggc	gcc	---	---	---	111	
α591	tat	aag	ctg	tcg	cag	agg	ggc	tac	gag	tgg	gat	gcg	gga	gat	gtg	ggc	gcc	---	---	---	111	
α588	tat	aag	ctg	tcg	cag	agg	ggc	tac	gag	tgg	gat	gcg	gga	gat	gtg	ggc	gcc	---	---	---	111	
α480	tat	aag	ctg	tcg	cag	agg	ggc	tac	---	---	---	---	---	---	---	---	---	---	---	---	84	
α633	tat	aag	ctg	tcg	cag	agg	ggc	tac	gag	qcg	acc	aga	acg	gcc	120							
Bcl2β	tat	aag	ctg	tcg	cag	agg	ggc	tac	gag	tgg	gat	gcg	gga	gat	gtg	ggc	gcc	gcg	ccc	ccg	120	
β489	tat	aag	ctg	tcg	cag	agg	ggc	tac	gag	tgg	gat	gcg	gga	gat	gtg	ggc	gcc	---	---	---	111	
β474	tat	aag	ctg	tcg	cag	agg	ggc	tac	gag	tgg	gat	gcg	gga	gat	gtg	ggc	gcc	---	---	---	111	
β420	tat	aag	ctg	tcg	cag	agg	ggc	---	---	---	---	---	---	---	---	---	---	---	---	---	69	
β315	tat	aag	ctg	tcg	cag	agg	ggc	---	---	---	---	---	---	---	---	---	---	---	---	---	78	
<b>Bcl-2 (Ab-1)</b>																						

**Bcl-2 (Ab-1)      8H4**

Bcl2α	ggg	gcc	gcc	ccc	gcg	ccg	ggc	atc	ttc	tcc	tcg	cag	ccc	ggg	cac	acg	ccc	cat	aca	gcc	180
α591	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	111
α588	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	111
α480	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	84
α633	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	156
Bcl2β	ggg	gcc	gcc	ccc	gca	ccg	ggc	atc	ttc	tcc	tcg	cag	ccc	ggg	cac	acg	ccc	cat	gca	gcc	180
β489	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	111
β474	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	120
β420	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	69
β315	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	78
<b>Bcl-2 (Ab-4)</b>																					

**Bcl-2 (Ab-4)**

Bcl2α	gca	tcc	cgg	gac	ccg	gtc	gcc	agg	acc	tcc	tcg	cag	acc	ccg	gtc	ccc	ggc	gcc	240		
α591	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	111
α588	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	111
α480	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	84
α633	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	156
Bcl2β	gca	tcc	cgc	gac	ccg	gtc	gcc	agg	acc	tcc	tcg	cag	acc	ccg	gtc	ccc	ggc	gcc	240		
β489	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	111
β474	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	120
β420	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	69
β315	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	78
<b>Bcl-2(BD), Bcl-2(C-2)</b>																					

gcc	gcg	ggg	cct	gcg	ctc	agc	ccg	gtg	cca	cct	gtg	gtc	cac	ctg	acc	ctc	egc	cag	gcc	300	
α591	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	171
α588	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	168
α480	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	84
α633	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	213
Bcl2β	gcc	gog	ggg	cct	gcg	ctc	agc	ccg	gtg	cca	cct	gtg	gtc	cac	ctg	gcc	ctc	egc	cag	gcc	300
β489	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	171
β474	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	156
β420	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	102
β315	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	78

**8H1**

Bcl2α	ggc gac gac ttc tcc cgc cgc	tac cgc cgc gac ttc gcc gag atg tcc agg cag ctg cac	360
α591	ggc gac gac ttc tcc cgc cgc	tac cgc cgc gac ttc gcc gag atg tcc agc cag ctg cac	231
α588	ggc gac gac ttc tcc cgc cgc	tac cgc cgc gac ttc gcc gag atg tcc agc cag ctg cac	228
α480	---	---	---
α633	ggc gac gac ttc tcc cgc cgc	---	---
Bcl2β	ggc gao gac ttc tcc cgo cgc	tac cgc ggo gac ttc gcc gag atg tcc ago cag ctg cac	273
β489	ggc gac gao ttc tcc cgo cgc	tac cgc ggo gac ttc gcc gag atg tcc ago cag ctg cac	360
β474	ggc gao gac ttc tcc cgo cgc	tac cgc gac ttc gcc gag atg tcc agc cag ctg cac	231
β420	ggc gac ggc ttc tcc cgo cgc	tac cgc gac ttc gcc gag atg tcc agc cag ctg cac	216
β315	---	---	78

**BH1**

Bcl2α	ctg acg ccc ttc acc gcg egg gga cgc ttt gcc acg gtg gtg gag	gag ctc ttc agg gac	420
α591	ctg acg ccc ttc acc gcg egg gga cgc ttt gcc acg gtg gtg gag	gag ctc ttc agg gac	291
α588	ctg acg ccc ttc acc gcg egg gga cgc ttt gcc acg gtg gtg gag	gag ctc ttc agg gac	288
α480	ctg acg ccc ttc acc gcg egg gga cgc ttt gcc acg gtg gtg gag	gag ctc ttc agg gac	180
α633	ctg acg ccc ttc acc gcg egg gga cgc ttt gcc acg gtg gtg gag	gag ctc ttc agg gac	333
Bcl2β	ctg acg ccc ttc acc gcg egg gga cgc ttt gcc acg gtg gtg gag	gag ctc ttc agg gac	420
β489	ctg acg ccc ttc acc gcg egg gga cgc ttt gcc acg gtg gtg gag	gag ctc ttc agg gac	291
β474	ctg acg ccc ctc acc gcg egg gga cgc ttt gcc acg gtg gtg gag	gag ctc ttc agg gac	276
β420	ctg acg ccc ttc acc gcg egg gga cgc ttt gcc acg gtg gtg gag	gag ctc ttc agg gac	222
β315	---	gag ctc ttc agg gac	117

**BH2**

Bcl2α	ggg gtg aac tgg ggg agg att gtg gcc ttc ttt gag ttc ggt ggg	gtc atg tgt gtg gag	480
α591	ggg gtg aac tgg ggg agg att gtg gcc ttc ttt gag ttc ggt ggg	gtc atg tgt gtg gag	351
α588	ggg gtg aac tgg ggg agg att gtg gcc ttc ttt gag ttc ggt ggg	gtc atg tgt gtg gag	348
α480	ggg gtg aac tgg ggg agg att gtg gcc ttc ttt gag ttc ggt ggg	gtc atg tgt gtg gag	240
α633	ggg gtg aac tgg ggg agg att gtg gcc ttc ttt gag ttc ggt ggg	gtc atg tgt gtg gag	393
Bcl2β	ggg gtg aac tgg ggg agg att gtg gcc ttc ttt gag ttc ggt ggg	gtc atg tgt gtg gag	480
β489	ggg gtg aac tgg ggg agg att gtg gcc ttc ttt gag ttc ggt ggg	gtc atg tgt gtg gag	351
β474	ggg gtg aac tgg ggg agg att gtg gcc ttc ttt gag ttc ggt ggg	gtc atg tgt gtg gag	336
β420	ggg gtg aac tgg ggg agg att gtg gcc ttc ttt gag ttc ggt ggg	gtc atg tgt gtg gag	282
β315	ggg gtg aac tgg ggg agg att gtg gcc ttc ttt gag ttc ggt ggg	gtc atg tgt gtg gag	177

**BH2**

Bcl2α	agc gtc aac cgg gag atg tcg ccc ctg gtg gac aac atc gcc ctg tgg atg act gag tac	540
α591	agc gtc aac cgg gag atg tcg ccc ctg gtg gac aac atc gcc ctg tgg atg act gag tac	411
α588	agc gtc aad cgg gag atg tcg ccc ctg gtg gac aac atc gcc ctg tgg atg act gag tac	408
α480	agc gtc aac cgg gag atg tcg ccc ctg gtg gac aac atc gcc ctg tgg atg act gag tac	300
α633	agc gtc aac cgg gag atg tcg ccc ctg gtg gac aac atc gcc ctg tgg atg act gag tac	453
Bcl2β	agc gtc aac cgg gag atg tcg ccc ctg gtg gac aac atc gcc ctg tgg atg act gag tac	540
β489	agc gtc aac cgg gag atg tcg ccc ctg gtg gac aac atc gcc ctg tgg atg act gag tac	411
β474	agc gco aac cgg gag atg tcg ccc ctg gtg gac aac atc gcc ctg tgg atg act gag tac	396
β420	agc gtc aac cgg gag atg tcg ccc ctg gtg gac aac atc gcc ctg tgg atg act gag tac	342
β315	agc gtc aac cgg gag atg tcg ccc ctg gtg gac aac atc gcc ctg tgg atg act gag tac	237

**BH2**

Bcl2α	ctg aac cgg cac ctg cac	acc tgg atc cag gat aac gga ggc tgg	---	---	---	585
α591	ctg aac cgg cac ctg cac	acc tgg atc cag gat aac gga ggc tgg	---	---	---	456
α588	ctg aac cgg cac ctg cac	acc tgg atc cag gat aac gga ggc tgg	---	---	---	453
α480	ctg aac cgg cac ctg cac	acc tgg atc cag gat aac gga ggc tgg	---	---	---	345
α633	ctg aac cgg cac ctg cac	acc tgg atc cag gat aac gga ggc tgg	---	---	---	498
Bcl2β	ctg aac cgg cac ctg cac	acc tgg atc cag gat aac gga ggc tgg	gtt ggt gca tct ggt	600		
β489	ctg aac cgg oac ctg cac	acc tgg atc cag gat aac gga ggc tgg	gtt ggt gca tct ggt	471		
β474	ctg aac cgg oac ctg cac	acc tgg atc cag gat aac gga ggc tgg	gtt ggt gca tct ggt	456		
β420	ctg aac cgg cac ctg cac	acc tgg atc cag gat aac gga ggc tgg	gtt ggt gca tct ggt	402		
β315	ctg aac cgg cac ctg cac	acc tgg atc cag gat aac gga ggc tgg	gtt ggt gca tct ggt	297		

**BH3**

Bcl2α	---	gat gcc ttt gtg gaa ctg tac	gac ccc agc atg cgg cct ctg	627
α591	---	gat gcc ttt gtg gaa ctg tac	gac ccc agc atg cgg cct ctg	498
α588	---	gat gcc ttt gtg gaa ctg tac	gac ccc agc atg cgg cct ctg	495
α480	---	gat gcc ttt gtg gaa ctg tac	gac ccc agc atg cgg cct ctg	387
α633	---	gat gcc ttt gtg gaa ctg tac	gac ccc agc atg cgg cct ctg	540
Bcl2β	gat gtg agt ctg ggc tga	---	---	618
β489	gat gtg agt ctg ggc tga	---	---	489
β474	gat gtg agt ctg ggc tga	---	---	474
β420	gat gtg agt ctg ggc tga	---	---	420
β315	gat gtg agt ctg ggc tga	---	---	315

**BH3**

Bcl2α ttt gat ttc tcc tgg ctg tct ctg aag act ctg ctc agt ttg gcc ctg gtg gga gct tgc 687  
α591 ttt gat ttc tcc tgg ctg tct ctg aag act ctg ctc agt ttg gcc ctg gtg gga gct tgc 558  
α588 ttt gat ttc tcc tgg ctg tct ctg aag act ctg ctc agt ttg gcc ctg gtg gga gct tgc 555  
α480 ttt gat ttc tcc tgg ctg tct ctg aag act ctg ctc agt ttg gcc ctg gtg gga gct tgc 447  
α633 ttt gat ttc tcc tgg ctg tct ctg aag act ctg ctc agt ttg gcc ctg gtg gga gct tgc 600

Bcl2α atc acc ctg ggt gcc tat ctg ggc cac aag tga 720  
α591 atc acc ctg ggt gcc tat ctg ggc cac aag tga 591  
α588 atc acc ctg ggt gcc tat ctg ggc cac aag tga 588  
α480 atc acc ctg ggt gcc tat ctg ggc cac aag tga 480  
α633 atc acc ctg ggt gcc tat ctg ggc cac aag tga 633

Figure 2

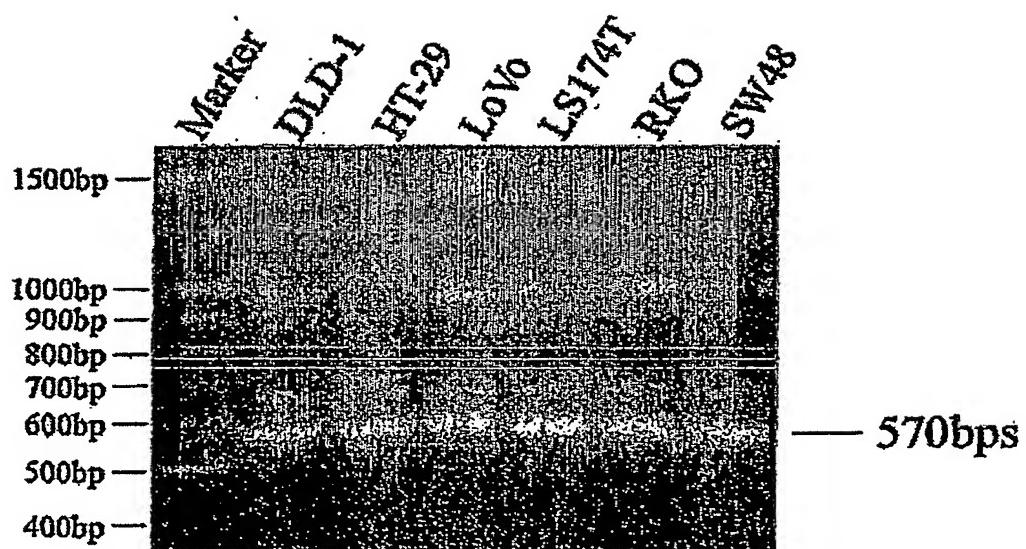
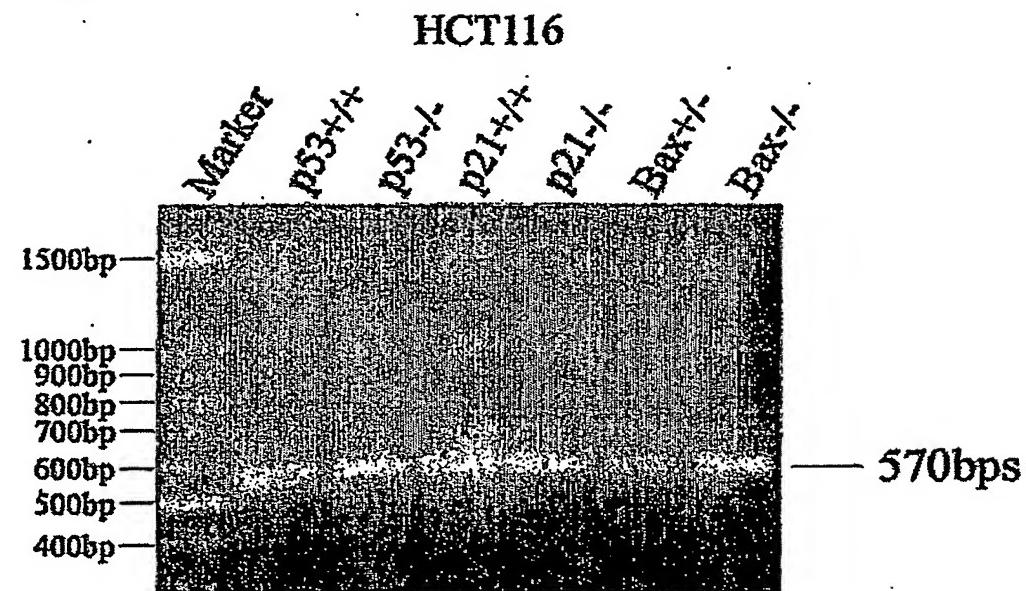


FIGURE 3

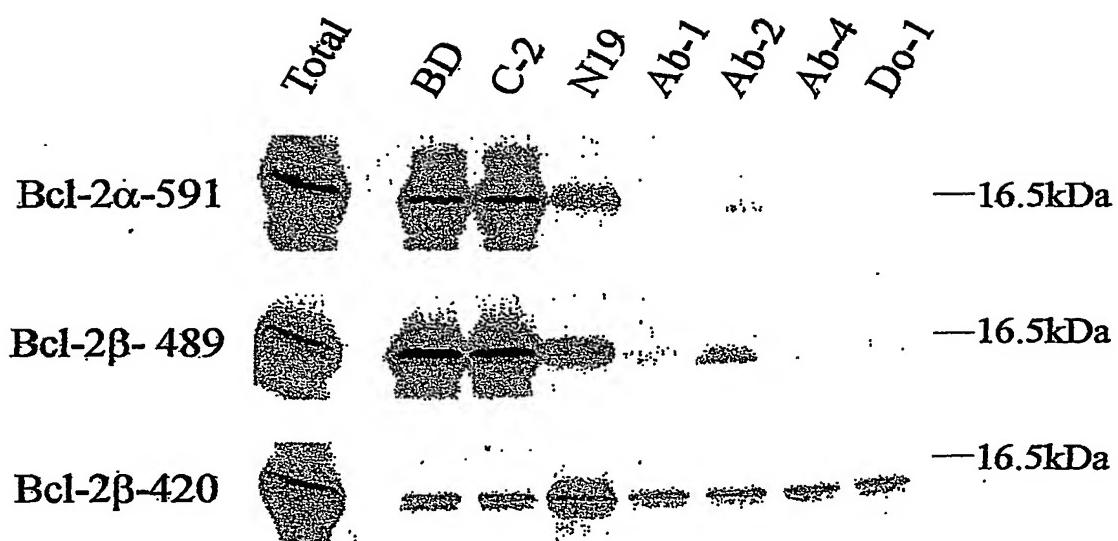


Figure 4

	HCT p53-/-	HCT Bax+/-	HCT Bax-/-	HCT p21+/+	HCT p21-/-	RKO	LoVo	LSC74T	SW48
α591	Φ	Φ	Φ	Φ	Φ		Φ		Φ
α588					Φ				
α480						Φ			
α633						Φ			
β489								Φ	
β474									
β420						Φ			
β315							Φ		

FIGURE 5 ;

